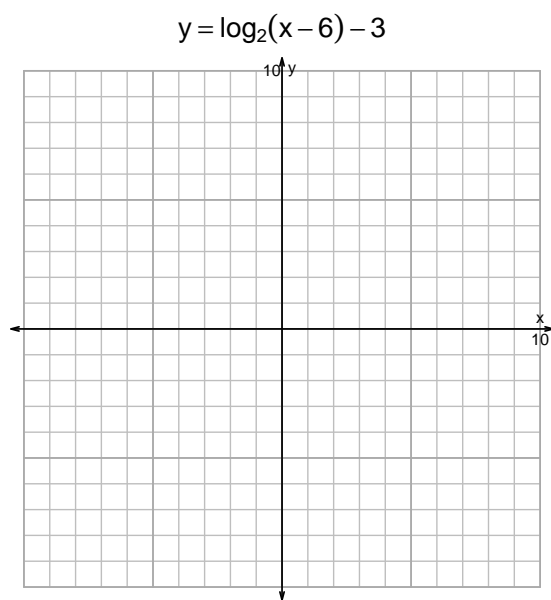
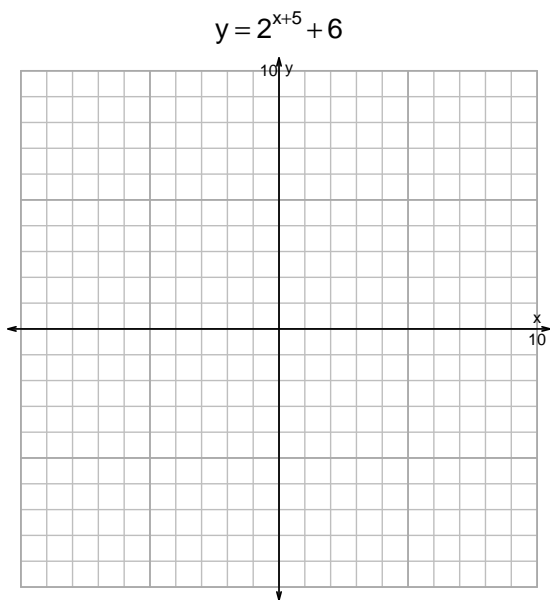


Name: _____

Date: _____

S18QUIZ: EXP LOG (PRACTICE v132)

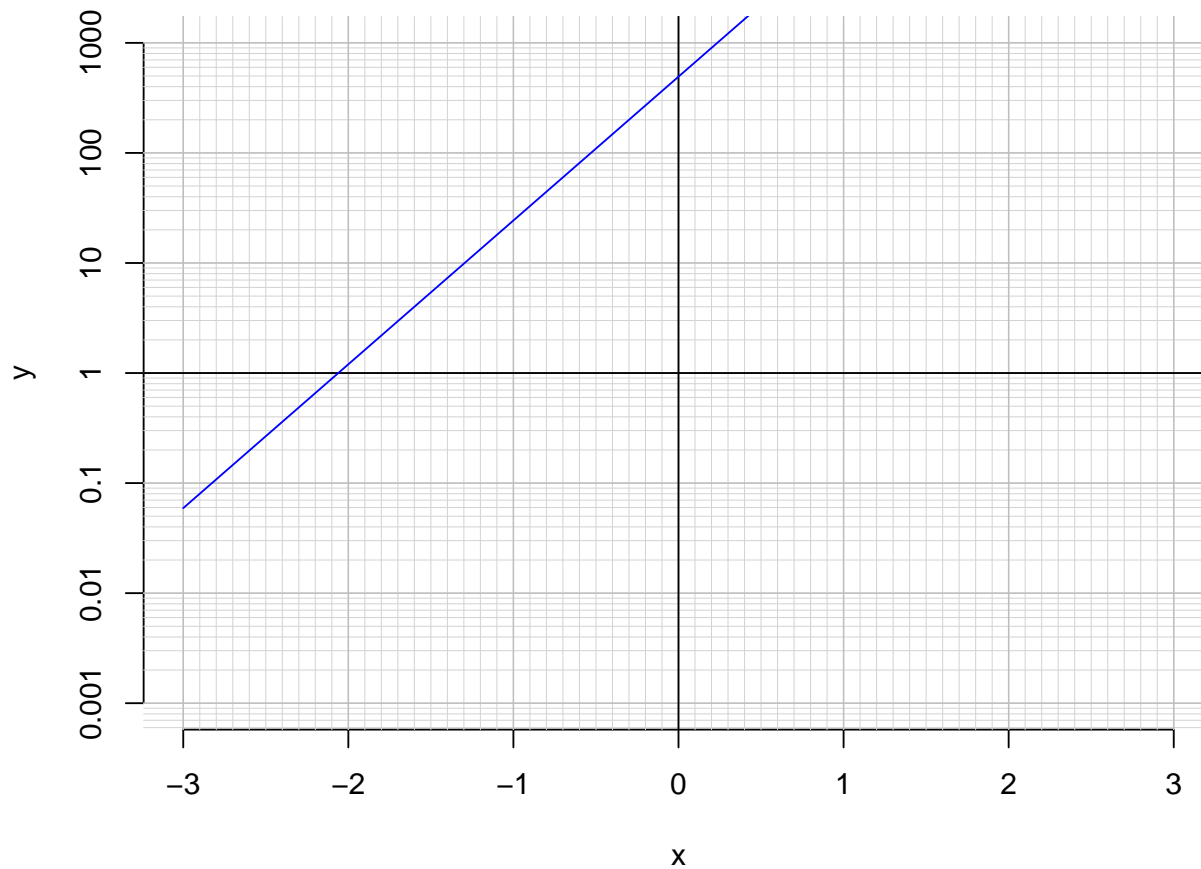
1. Graph $y = 2^{x+5} + 6$ and $y = \log_2(x - 6) - 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$13 = \left(\frac{3}{4}\right) \cdot 10^{5t/7}$$

3. An exponential function $f(x) = 493 \cdot e^{3.01x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(-1.6)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(900)$.